

ABSTRACT

A collapsible vehicle safety seat is essentially designed to restrain movement of the occupant especially at the time of frontal, rear-end and lateral collisions in high and low speed or when an impact becomes inevitable. The seat includes an actuator controlled and operated electronically or manually. The onset of the collision sequences the car crash sensor or collision avoidance devices including occupant voice activated actuator. The trigger release forces of a biasing means or equivalently devices electromagnetic or pyrotechnic to deploys instantly pivot frame incorporated with movable seat cushion, seat back and headrest. The alteration movable seat assembly from a normal stationary position created a safety zone that allows occupants to lower their center of gravity before ejection, whiplash or ramping occurs. The dynamic seat restrains motion of the occupant and improves safety performance of the seat belt integrated with movable seat cushion and seat back. An isolation mount pan dissipates crash energy and minimizes interaction between vehicle and seat. The seat bottom support structure is encapsulated into an isolation mount pan. The plurality mount pan contains a resilient material to hold the seat support structure in proper position and delay response the seat to impacted vehicle. The isolation performance of the mount pan improves the vehicle absorbing energy devices

including a crumple zone. The isolation mount pan is affixed to the seat adjustment mechanism in conventional manner.